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Client/Matter No. 86715.0005.000  
Attorney Docket No. 2879-54-4

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Steven W. Dow, et al.

Serial No. 10/780,294

Filed: February 17, 2004

For: SYSTEMIC IMMUNE  
ACTIVATION METHOD USING  
NON CPG NUCLEIC ACIDS

Group Art Unit: 1632

Examiner: Not yet accorded

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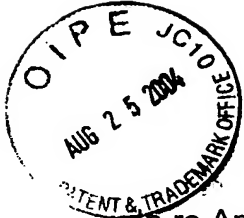
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August 25, 2004  
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INFORMATION DISCLOSURE STATEMENT  
UNDER 37 C.F.R. 1.56

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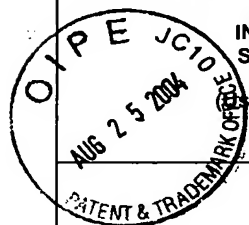
Applicant hereby submits for filing under 37 CFR 1.97 a disclosure statement. In submitting these references, no representation is made or implied that the references are or are not material to the examination of this application. The patents, publications or other information of which Applicant is presently aware are listed in Form PTO/SB/08A submitted herewith, and copies of non-patent publications are attached hereto.

No fee is believed due for this submittal. However, any fee deficiency associated with this submittal may be charged to Deposit Account No. 50-1123.

Respectfully submitted,

August 25, 2004  
Date

  
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PTO/SB/08A (10/01) (Substitute for form 1449A/PTO)	ATTY. DOCKET NO. 2879-54-4 Client/Matter No. 86715.0005.000	APPLICATION NO. 10/780,294
	INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	
	FIRST NAMED INVENTOR Steven W. Dow	FILING DATE February 17, 2004
ART UNIT 1632		Sheet 1 of 5

### U.S. PATENT DOCUMENTS

Examiner Initials	Cite No.	Document No. No. - Kind Code	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Doc	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	1	US-6,121,247	09/19/2000	Huang et al.	
	2	US-6,224,901 B1	05/01/2001	Li et al.	
	3	US-5,830,878	11/03/1998	Gorman et al.	
	4	US-5,827,703	10/27/1998	Debs et al.	
	5	US-5,593,972	01/14/1997	Weiner et al.	
	6	US-5,641,662	06/24/1997	Debs et al.	
	7	US-5,643,578	07/01/1997	Robinson et al.	
	8	US-5,676,954	10/14/1997	Brigham	
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	10	US-5,693,622	12/02/1997	Wolff et al.	

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Examiner Initials	Cite No.	Foreign Patent Doc entry code - No. - Kind Code	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Doc	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	TRANSLATION	
						YES	NO
	11	WO 94/04196	03/03/1994	Imperial Cancer Research Technology Limited		X	
	12	WO 93/25673	12/23/1993	The Regents of the University of California		X	

### OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s) publisher, city and/or country where published
	13	EYAL RAZ, DENNIS A. CARSON, et al. "Cationic Lipids Inhibit Intradermal Genetic Vaccination," Vaccines 94, Cold Spring Harbor Laboratory Press (1994) pp. 71-75.
	14	INDER M. VERMA and NIKUNJ SOMIA, "Gene Therapy - promises, problems and prospects," Nature, Volume 389 (1997) pp. 239-242.
	15	STUART H. ORKIN, M.D. and ARNO G. MOTULSKY, M.D., "Report and Recommendation of the Panel to Assess the NIH Investment in Research on Gene Therapy," Dec. 7, 1995, pp.1-41.

EXAMINER SIGNATURE

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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>PTO/SB/08A (10/01)</b> (Substitute for form 1449A/PTO)		<b>ATTY. DOCKET NO. 2879-54-4</b> Client/Matter No. 86715.0002		<b>APPLICATION NO.</b> 10/780,294	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use several sheets if necessary)		<b>FIRST NAMED INVENTOR</b> Steven W. Dow			
Sheet 2 of 5		<b>FILING DATE</b> February 17, 2004		<b>ART UNIT</b> 1632	

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	16	5,703,055	12/30/1997	Felgner et al.	
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						YES	NO
	24	EP 0 819 758 A2	01/21/1998	James Archibald Mixson		X	

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS		
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s) publisher, city and/or country where published
	25	XIANG GAO, "Cationic Lipid-Based Gene Delivery: An Update," pp. 99-112.
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	30	5,686,101	11/11/1997	Tagawa et al.		
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	35	ARTHUR M. KRIEG, "Lymphocyte activation by CpG dinucleotide motifs in prokaryotic DNA," Trends in Microbiology, Vol. 4 No. 2 February 1996 pp.1-5.
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	37	YUKIO SATO, et al., "Immunostimulatory DNA Sequences Necessary for Effective Intradermal Gene Immunization," Science, Vol. 273, 19 July 1996 pp. 352-354.
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	39	SIQUAN SUN, et al. "Dual Function of Drosophila Cells as APCs for Native CD8 <sup>+</sup> TCells: Implications for Tumor Immunotherapy," Immunity, June 1996 Vol. 4, pp 555-564.
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	42	LESLIE A. LESOON-WOOD, et al., "Systemic Gene Therapy with p53 Reduces Growth and Metastases of a Malignant Human Breast Cancer in Nude Mice," Human Gene Therapy 6:395-405, April 1995.
	43	T. OKAMOTO, et al., Proceedings of the American Assoc. for Cancer Research, Vol. 38, March 1997, abstract # 78.
	44	J. NAITOH, et al., Proceedings of the American Assoc. for Cancer Research, Vol. 39, March 1998, abstract # 2421.

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	45	XIU-MIN Li, et al. "Mucosal IFN- $\gamma$ Gene Transfer Inhibits Pulmonary Allergic Responses in Mice," J. Immunology, 1996, pp. 3216-3219.				
	46	JOHN W. MCLEAN, et al. "Organ-specific endothelial cell uptake of cationic liposome-DNA complexes in mice," The American Physiological Society, pp. H387-H404.				
	47	DAVID S. PISETSKY, "Immune Activation by Bacterial DNA: A New Genetic Code," Immunity, Vol. 5., pp. 303-310, October 1996.				
	48	MARK ROMAN, et al. "Immunostimulatory DNA sequences function as T helper - 1- promoting adjuvants," Nature Medicine, Aug. 1997, Volume 3, Number 8, pp. 849-854.				
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	51	NANCY SMYTH TEMPLETON, et al. "Improved DNA: liposome complexes for increased systemic delivery and gene expression," Nature Biotechnology Volume 15, July 1997 pp. 647-652.				
	52	GREGORY GREGORIADIS, et al. "Liposome-mediated DNA vaccination," FEBS Letters 402 (1997) pp. 107-110.				
	53	RODNEY J.Y. HO, et al. "Interactions of Target-sensitive Immunoliposomes with Herpes Simplex Virus," Journal of Biological Chemistry, Vol. 262, No. 29, (1987) pp.13979-13984.				
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	55	5,935,568	08/10/1999	Dow et al.	

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	56	RODNEY J.Y. HO, et al., "Target-Sensitive Immunoliposomes: Preparation and Characterization," Biochemistry Vol. 25, (1986) pp. 5500-5506.
	57	T.M. ALLEN, et al., "Large unilamellar liposomes with low uptake into the reticuloendothelial system," FEBS Letters, Vol. 223, No. 1, (1987), pp. 42-46.
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	59	MARTIN C. WOODLE, et al., "Sterically stabilized liposomes," Biochimica et Biophysica Acta, 1113 (1992) pp. 171-199.
	60	Hiroaki Hemmi, et al., 2002, Nature Immunology, 3(2): 196-200.

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